

CRYSTALLIZATION OF IGF-1

Abstract of the Disclosure

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Crystalline IGF-1 is provided along with a method for production thereof. Crystallizing IGF-1 comprises the steps of mixing an aqueous solution comprising IGF-1 with a reservoir solution comprising a precipitant to form a mixture; and crystallizing the mixture, optionally also recrystallizing and isolating the crystalline IGF-1. In addition, a method for identifying IGF-1 indirect agonists is provided using a

10 detergent as a standard for the level of inhibition of binding of IGFBP-1 or IGFBP-3 to IGF-1 and/or using the coordinates of the binding pockets of IGF-1 to which a candidate indirect agonist binds for structure-based drug design.